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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/533,432	04/21/2006	Masaru Hidaka	271013US90PCT	6068	
22859 0921/2008 OBLON, SPIVAK, MCCLEILAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAM	EXAMINER	
			GALE, KELLETTE		
ALEXANDRIA	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			1621		
			NOTIFICATION DATE	DELIVERY MODE	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

## Application No. Applicant(s) 10/533 432 HIDAKA ET AL. Office Action Summary Examiner Art Unit KELLETTE GALE 1621 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 October 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-3 and 17 is/are pending in the application. 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-3 and 17 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Revie 3) Information Disclosure Statement(s) (FTO/SS/Paper No(s)/Mail Date	w (PTO-948) Pape	view Summary (PTO-413) r No(s)Mail Date. n of Informal Pair of Application r
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Application/Control Number: 10/533,432 Page 2

Art Unit: 1621

#### DETAILED ACTION

#### Status of Claims

Claims 1-3 and 17 are pending in this application.

Claims 4-16 have been cancelled.

## Response to Amendment

The amendment filed October 26, 2007 has been received and acknowledged by the Examiner.

## Response to Arguments

Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Hitoshi et al (JP 2002-226871).

Hitoshi et al disclose a method for gasifying plastics with high temperature and high pressure super critical water in the presence of an inorganic oxide and/or inorganic hydroxide to crack the plastics to effect corrosion into low-molecular weight compounds such as corresponding monomer components (please see translated abstract).

#### Claim Rejections - 35 USC § 103

Page 3

Application/Control Number: 10/533,432

Art Unit: 1621

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-3 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hitoshi et al.

Applicant claims a process for decomposing a polymer into a monomer or oligomer comprising hydrolyzing the polymer with sub or super critical water in the presence of a water insoluble base, the water insoluble base specifically being CaCo3.

# Ascertainment of the difference between the prior art and the claims (MPEP \$2141.02)

The difference between the prior art and the claims is that Hitoshi et al does not specifically use CaCo3 as it's inorganic oxide.

Finding of prima facie obviousness

Rational and Motivation (MPEP §2142-2143)

Application/Control Number: 10/533,432

Art Unit: 1621

One having ordinary skill in the art at the time of the instant invention would find it obvious to utilize CaCO3 as an inorganic oxide as it is stated in the disclosure of Hitoshi et al that any inorganic oxide may be used. One having ordinary skill in the art at the time of the instant invention would be motivated to use CaCO3 as it's inorganic oxide with a reasonable expectation of success based on cost and availability of products.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KELLETTE GALE whose telephone number is (571)272-8038. The examiner can normally be reached on M-F (6:30am-3:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, YVONNE EYLER can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/533,432 Art Unit: 1621

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Kellette Gale Patent Examiner Technology Center 1600

March 12, 2008

/Samuel A Barts/ Primary Examiner Art Unit 1621